	Application No.	Applicant(s)
Notice of Allowability	10/699,666	LYON, TERRY L.
	Examiner	Art Unit
	Denise Tran	2186
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>2/27/04 and the telecommunication on 2/4/05</u> .		
2. The allowed claim(s) is/are <u>1-15</u> .		
3. The drawings filed on <u>04 November 2003</u> are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the 		
attached Examiner's comment regarding REQUIREMENT Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 11/4/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit	5. ☐ Notice of Informal F 6. ☑ Interview Summary Paper No./Mail Da 7. ☑ Examiner's Amendi	Patent Application (PTO-152) (PTO-413), te <u>2/4/05</u> .
of Biological Material	9.	Deuseym

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Harrop on 2/4/05.

- The application has been amended as follows:
 please enter the attachment (5 pages).
- 3. Entry of "Patent No.6,772,316" to identify a patent which has been granted on a U.S. application referred to by application number 10/230,188 in the specification.
- 4. Entry of "Patent No.6,014,732" to identify a patent which has been granted on a U.S. application referred to by application number 08/955,821 in the specification.
- 5. The following is an examiner's statement of reasons for allowance: none of the prior art of record teaches the combination of a first processing pipeline comprising a prevalidated cache TLB wherein the prevalidated cache TLB comprising a virtual address content addressable memory receiving virtual address information for integer load and a second processing pipeline, independent of the first processing pipeline, the

second processing pipeline comprising: a cache tag array for holding physical addresses of cache lines, a master TLB for receiving virtual addresses information of store operations and generating a physical address, bypass around the master TLB if an address of store operations is a physical address, and comparator for comparing a physical address from one of the bypass and the master TLB to a physical address from the cache tag array and the other limitations of the claims 1, 9.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a) Naffziger (6,014,732 A) shows a prevalidated cache;
 - b) Fu et al. (6,272,597) show a plurality of TLBs; and
 - c) EP 0911737, Naffziger shows a prevalidated cache; and
 - d) Beard, Sr. et al. show a plurality of TLBs.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Denise Tran whose telephone number is (571) 272-4189. The examiner can normally be reached on Monday, Thursday, and Friday from 9:00 a.m. to 5.30 p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt Kim, can be reached on (571) 272-4182. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D.T.

2/4/05

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